

RECEIVED

DEC 1 0 2003

#5

Technology Center 2100

Page# 1



U.S. Application No.: 09/981,085

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

NOV 17 2003

OFFICE OF PETITIONS

Applicant: Isaksen et al

U. S. Serial No: 09/981,085

Examiner:

5 Filed: October 16, 2001

Group Art Unit: 2133

Title: "LINEAR PHASE ROBUST CARRIER RECOVERY FOR QAM MODEMS."

Mail Stop Petitions

10 Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office

PETITION TO WITHDRAW HOLDING OF ABANDONMENT under 37 CFR 1.181(a)

15 Dear Sir:

In response to the Notice of Abandonment mailed on 11/06/2003, the applicant contends that the above identified application is not in fact abandoned.

20 The applicant hereby petitions under 37 CFR 1.181(a) and requests withdrawal of the holding of abandonment.

Such petition does not require a fee under 37 CFR 1.181(a).

25 According to the Notice of Abandonment, the above identified patent application was abandoned for failure to reply to the Notice to File Missing Parts mailed on 11/16/2001.

THIS IS NOT CORRECT!

Indeed, our office has received the original Notice to File Missing Parts dated 11/16/2001. Our office has responded with substitute drawings in compliance with 37 CFR 1.84, and mailed the substitute drawings via U.S. Postal Service by Certified Mail on 01/08/2002. Attached, please find a photocopy of the Return Receipt (corresponding to Certified Mail Receipt dated 01/08/2002) that shows that the response was received by the USPTO on February 12, 2002.

Therefore, a complete reply was filed with the USPTO within the time frame originally provided. That is why the Patent Application No. 09/981,085 was not abandoned at the time the response (to the original Notice to File Missing Parts dated 11/16/2001) was mailed 01/08/2002.

In response to the present Notice of Abandonment dated 11/06/2003, we hereby submit again the **additional substitute drawings** drafted in compliance with 37CFR 1.84.

Please note that on March 12, 2003, the applicant has submitted a Status Request for this application but a reply was never received from the USPTO. A copy of the Status Request and it's corresponding certified mail and return receipts are attached.

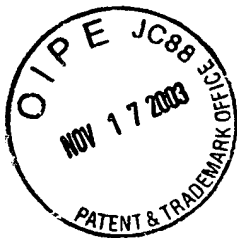
November 10, 2003

Respectfully submitted,


Boris Tankhilevich

Patent Attorney for the Applicant

Reg. No. 38,689.



RECEIVED

DEC 1 0 2003

Technology Center 2100

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to: <i>(wideband-105 Status Request)</i></p> <p><i>Commissioner of Patents & Trademarks</i></p> <p><i>USPTO</i></p> <p><i>Washington, DC 20231</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>E. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label) 7002 0460 0000 1352 6523</p>	

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-0835



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/981,085	10/16/2001	David Bruce Isaksen	Wideband-105/Tank-195

RECEIVED

NOV 17 2003

CONFIRMATION NO. 5385

ABANDONMENT/TERMINATION
LETTER

OC000000011205092

Law Offices of Boris G. Tankhilevich
 Ste. A
 536 N. Civic Drive
 Walnut Creek, CA 94596



OFFICE OF PETITIONS

Date Mailed: 11/06/2003

NOTICE OF ABANDONMENT UNDER 37 CFR 1.53 (f) OR (g)

The above-identified application is abandoned for failure to timely or properly reply to the Notice to File Missing Parts (Notice) mailed on 11/16/2001.

- No reply was received.

A petition to the Commissioner under 37 CFR 1.137 may be filed requesting that the application be revived.

Under 37 CFR 1.137(a), a petition requesting the application be revived on the grounds of **UNAVOIDABLE DELAY** must be filed promptly after the applicant becomes aware of the abandonment and such petition must be accompanied by: (1) an adequate showing of the cause of unavoidable delay; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(l); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Under 37 CFR 1.137(b), a petition requesting the application be revived on the grounds of **UNINTENTIONAL DELAY** must be filed promptly after applicant becomes aware of the abandonment and such petition must be accompanied by: (1) a statement that the entire delay was unintentional; (2) the required reply to the above-identified Notice; (3) the petition fee set forth in 37 CFR 1.17(m); and (4) a terminal disclaimer if required by 37 CFR 1.137(d).

Any questions concerning petitions to revive should be directed to the "Office of Petitions" at (703) 305-9282. Petitions should be mailed to: Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450.

A copy of this notice MUST be returned with the reply.

RECEIVED

DEC 10 2003

Technology Center 2100

Toquest Woldeyes
 Customer Service Center
 Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

RECEIVED
 NOV 20 2003
 Office of Patent Publication
 Director's Office



UNITED STATES PATENT AND TRADEMARK OFFICE

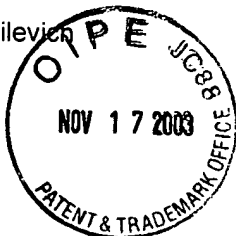
COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/981,085	10/16/2001	David Bruce Isaksen	Wideband-105/Tank-195

CONFIRMATION NO. 5385

FORMALITIES LETTER

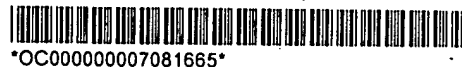
Law Offices of Boris G. Tankhilevich
Ste. A
536 N. Civic Drive
Walnut Creek, CA 94596



RECEIVED

NOV 17 2003

OFFICE OF PETITIONS



Date Mailed: 11/16/2001

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Filing Date Granted

This application has been accorded an Application Number and Filing Date. The application, however, is informal since it does not comply with the regulations for the reason(s) indicated below. Applicant is given **TWO MONTHS** from the date of this Notice within which to correct the informalities indicated below. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.36(a).

RECEIVED

DEC 10 2003

The required item(s) identified below must be timely submitted to avoid abandonment:

- Substitute drawings in compliance with 37 CFR 1.84 because:

Technology Center 2100

- drawing sheets do not have the appropriate margin(s) (see 37 CFR 1.84(g)). Each sheet must include a top margin of at least 2.5 cm. (1 inch), a left side margin of at least 2.5 cm. (1 inch), a right side margin of at least 1.5 cm. (5/8 inch), and a bottom margin of at least 1.0 cm. (3/8 inch);
- Drawings must be reasonably free from erasures and must be free from alterations, overwritings, interlineations, folds, and copy marks.

*A copy of this notice **MUST** be returned with the reply.*

Beth T. Bustin
Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



Attorney's Docket No.: Wideband-105/Tank-195

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

NOV 17 2003

OFFICE OF PETITIONS

Applicant: David Isaksen et al.

U. S. Serial No: 09/981,085

Examiner:

Filed: October 16, 2001

Group Art Unit: 2133

RECEIVED

Title: "LINEAR PHASE ROBUST CARRIER RECOVERY FOR QAM MODEMS" DEC 10 2003

Technology Center 2100

Mail Stop Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I certify that the Petition to Withdraw Holding Of Abandonment under 37 CFR 1.181(a) and formal drawings to the above-identified patent application were deposited by me with the U.S. Postal Service with postage prepaid and addressed to Mail Stop Petitions, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, at Oakland, California on November 10, 2003.

Date: November 10, 2003

Boris Tankhilevich,
Reg. No. 38,689

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David Isaksen; Byron Danzer

U. S. Serial No: 09/981,085

Examiner:

Filed: October 16, 2001

Group Art Unit:

Title: "Linear Phase Robust Carrier Recovery for QAM Modems"

Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

RECEIVED

DEC 10 2003

Technology Center 2100

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office

CERTIFICATE OF MAILING

I certify that the formal drawings to the above-identified patent application were deposited by me with the U.S. Postal Service with postage prepaid and addressed to Commissioner for Patents, United States Patent and Trademark Office, Washington, D.C. 20231, at Walnut Creek, California on January 8, 2002.

Date: January 8, 2002

Boris Tankhilevich,
Reg. No. 38,689

WASHINGTON DC 20231	
Postage	\$1.49
Certified Fee	\$2.10
Return Receipt Fee (Endorsement Required)	\$1.50
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$5.09

WALNUT CREEK, CA 94596
JAN - 8 2002
U.S. POSTAL SERVICE

Sent To
Commissioner for Patents
USPTO
City State Zip+4
Washington DC 20231
PS Form 3800, May 2000

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none">Complete items 1, 2, 3. Also complete item 4 if Restricted Delivery is desired.Print your name and address on the reverse so that we can return the card to you.Attach this card to the back of the mailpiece, or on the front if space permits.		<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>	
1. Article Addressed to: <i>(wideband-105)</i> Commissioner for Patents USPTO Washington, DC 20231		<p>Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
2. Article Number (Transfer from service label) <i>7000 167 001 9085 1821</i>			

1287 5806 2100 0297 0002

PS Form 3811, August 2001

102595-01-M-2509

1 / 11

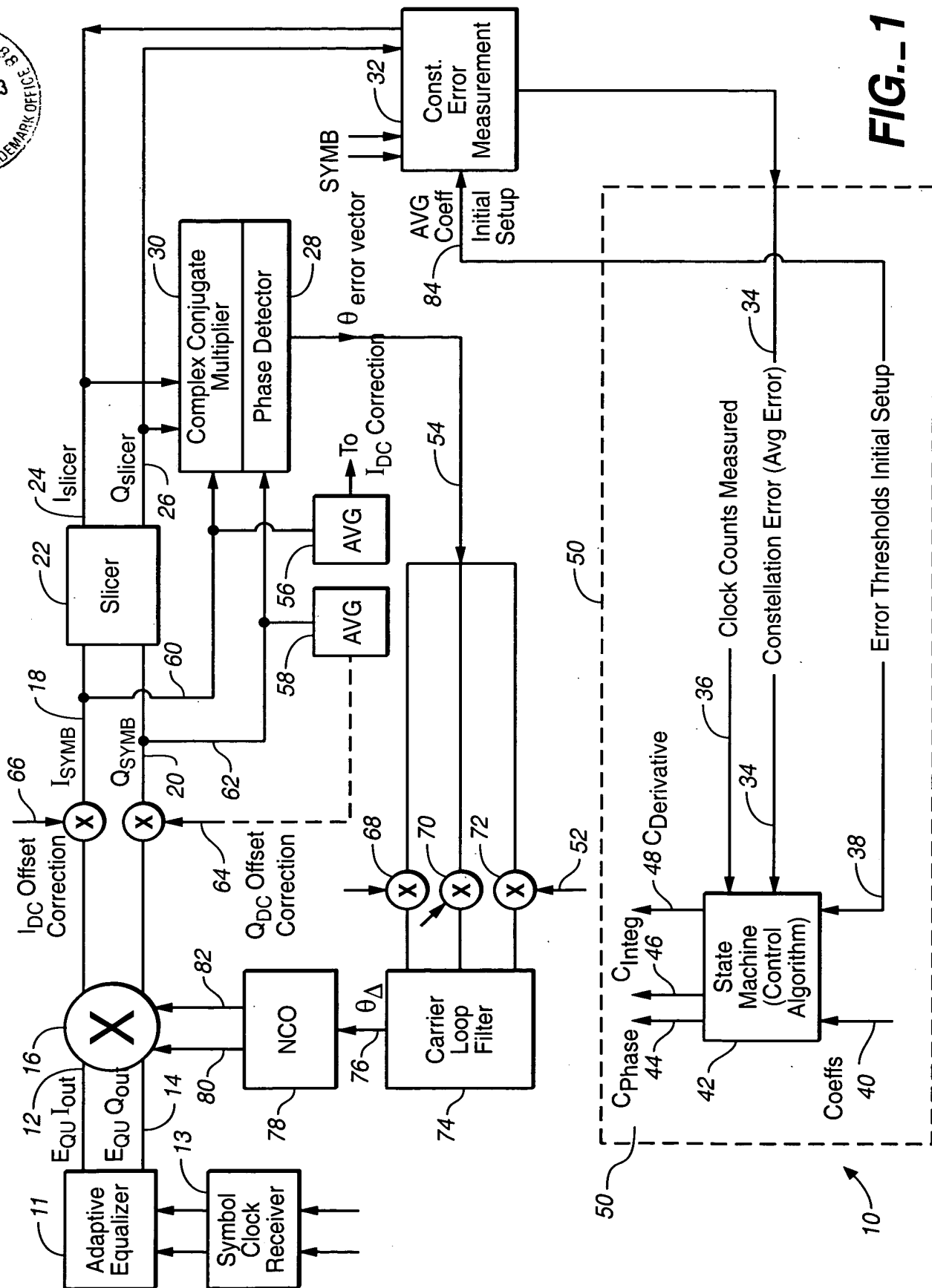


FIG. 1

RECEIVED

Wideband-105/Tank-195

NOV 20 2003

Office of Patent Publication
Director's Office



2 / 11

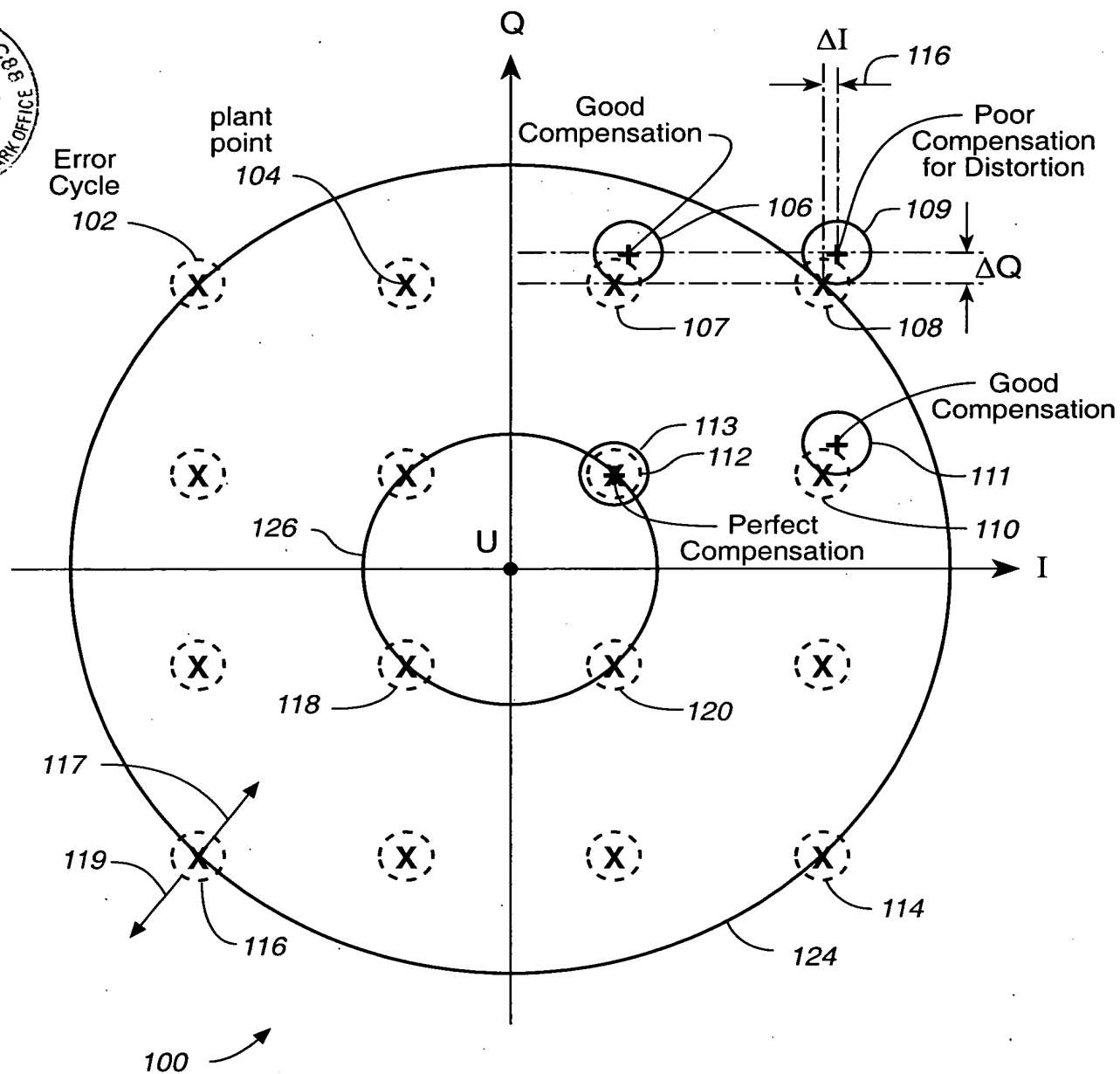


FIG. 2

NOV 20 2003

Wideband-105/Tank-195

Office of Patent Publication
Director's Office

3 / 11

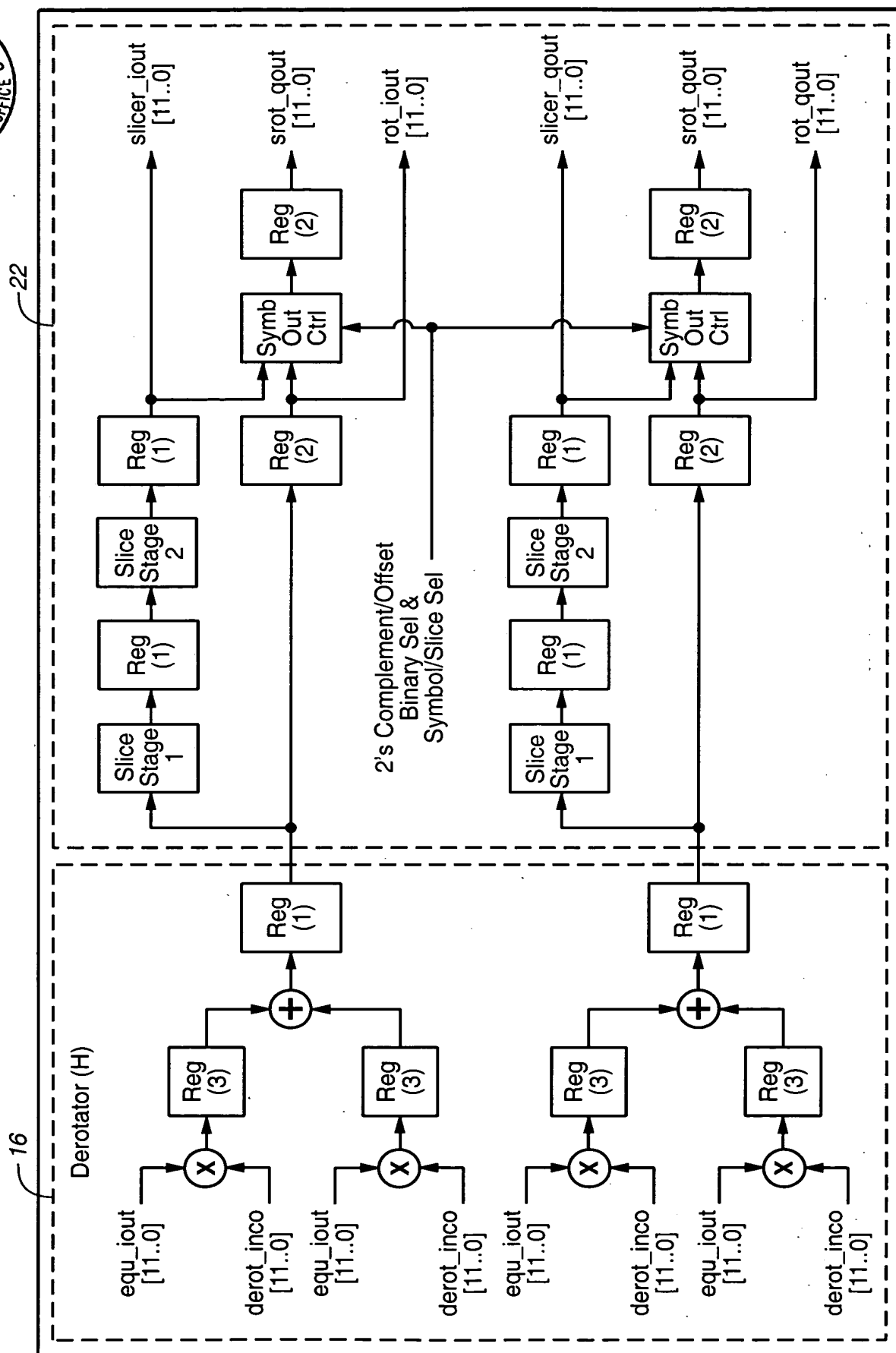


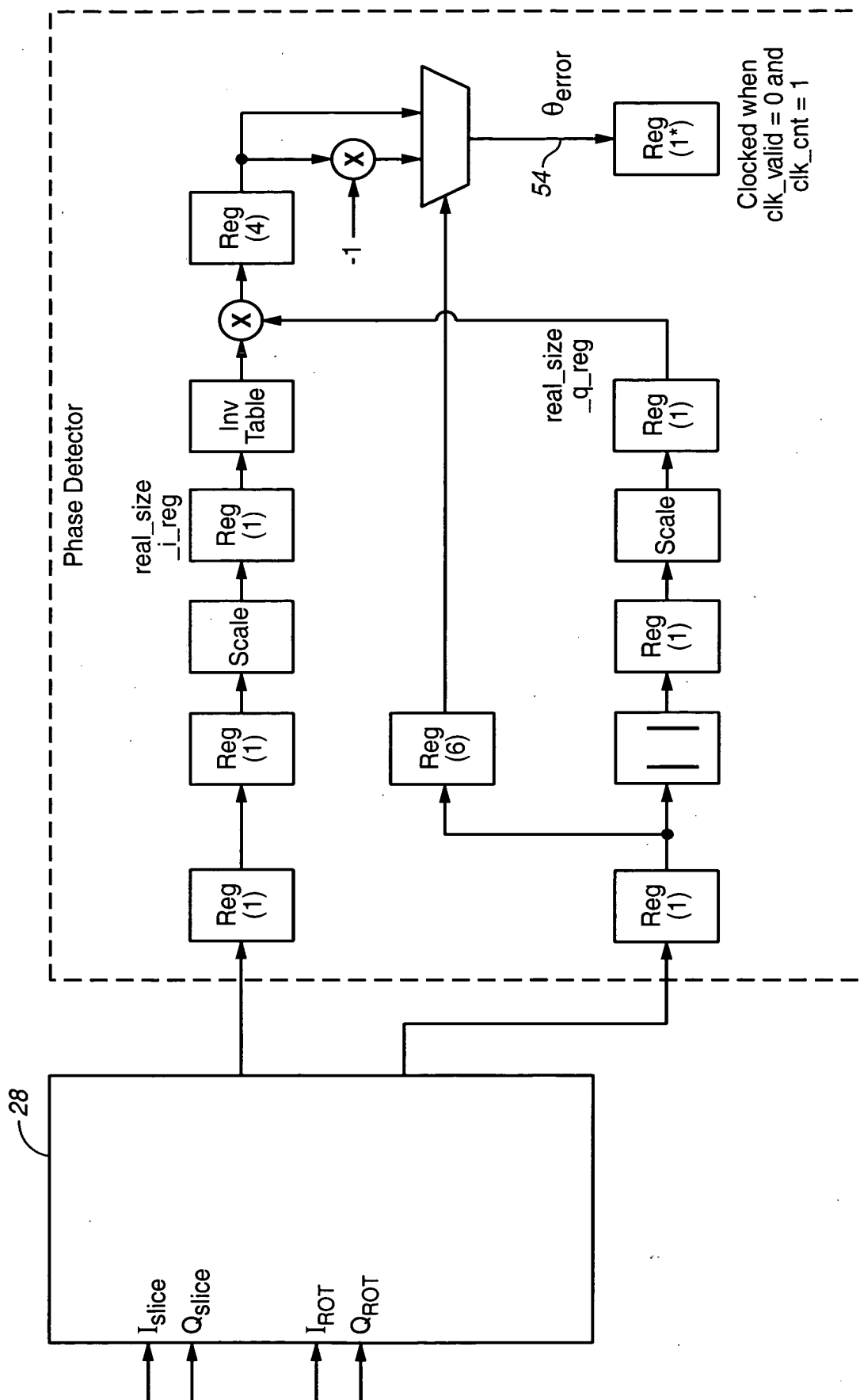
FIG. 3

NOV 20 2003

Office of Patent Publication
Director's Office

Wideband-105/Tank-195

4 / 11



Clocked when
clk_valid = 0 and
clk_cnt = 1

RECEIVED

Wideband-105/Tank-195

NOV 20 2003

Office of Patent Publication
Director's Office

5 / 11

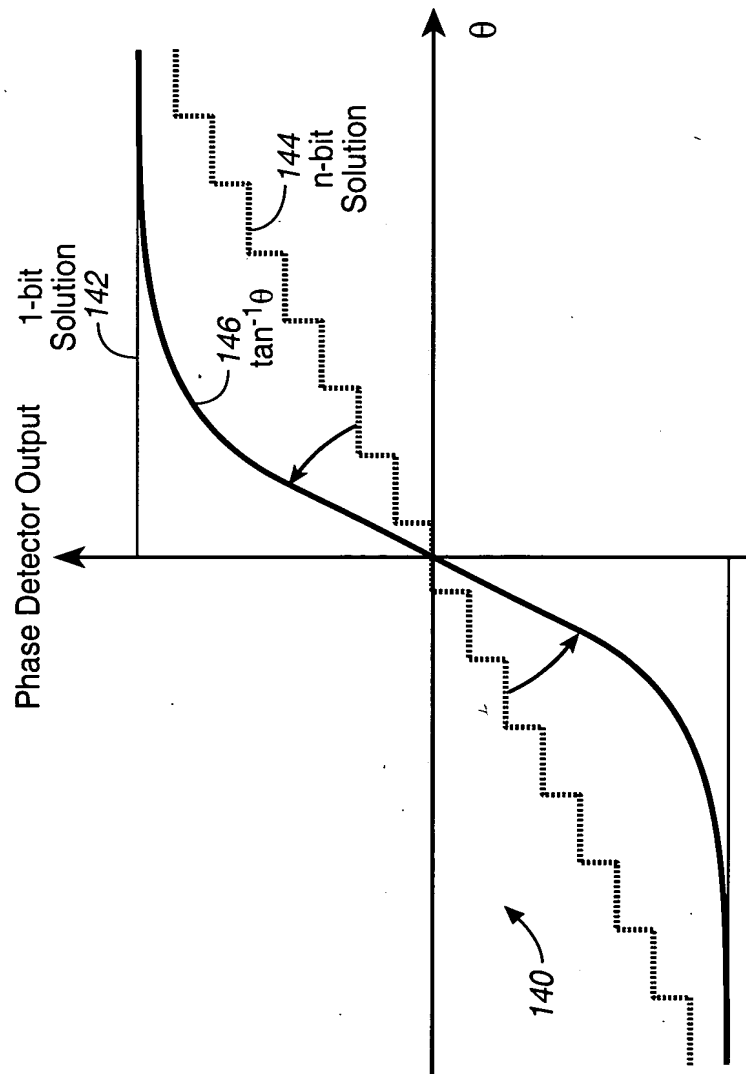
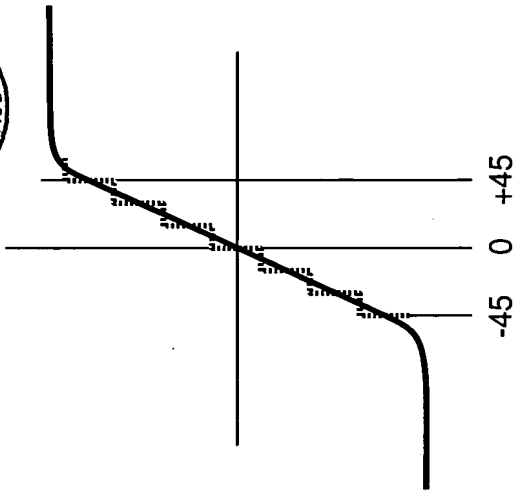


FIG. 5A

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office

Wideband-105/Tank-195

6 / 11

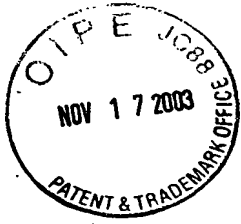


FIG..5B

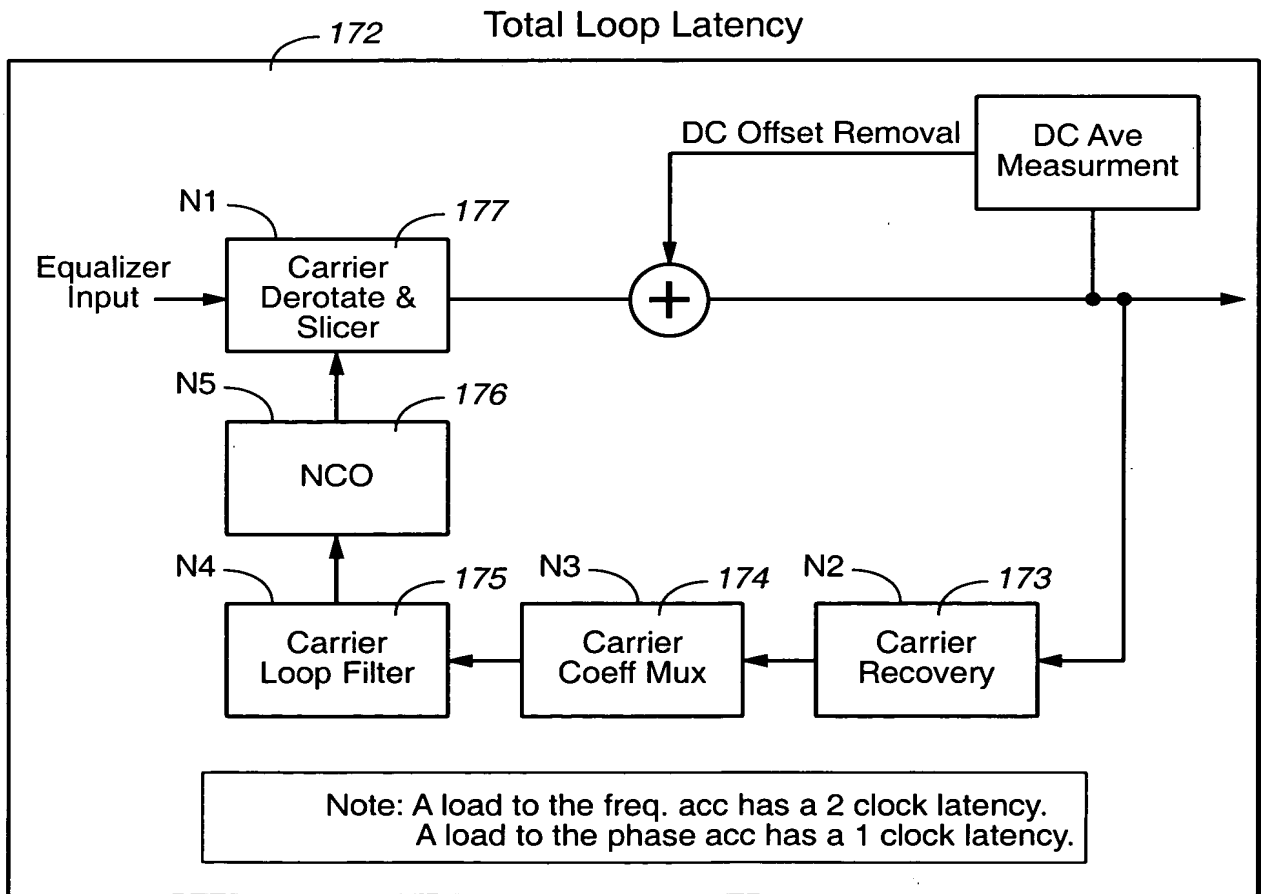
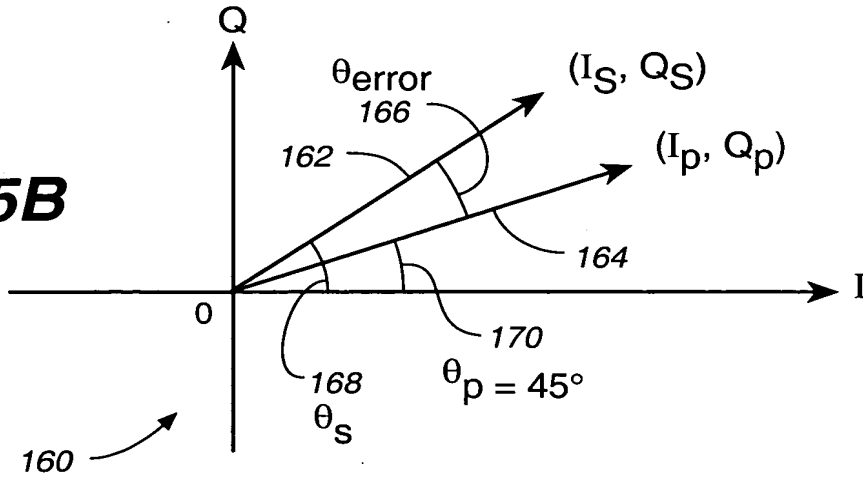


FIG..5C

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office



Wideband-105/Tank-195

7 / 11

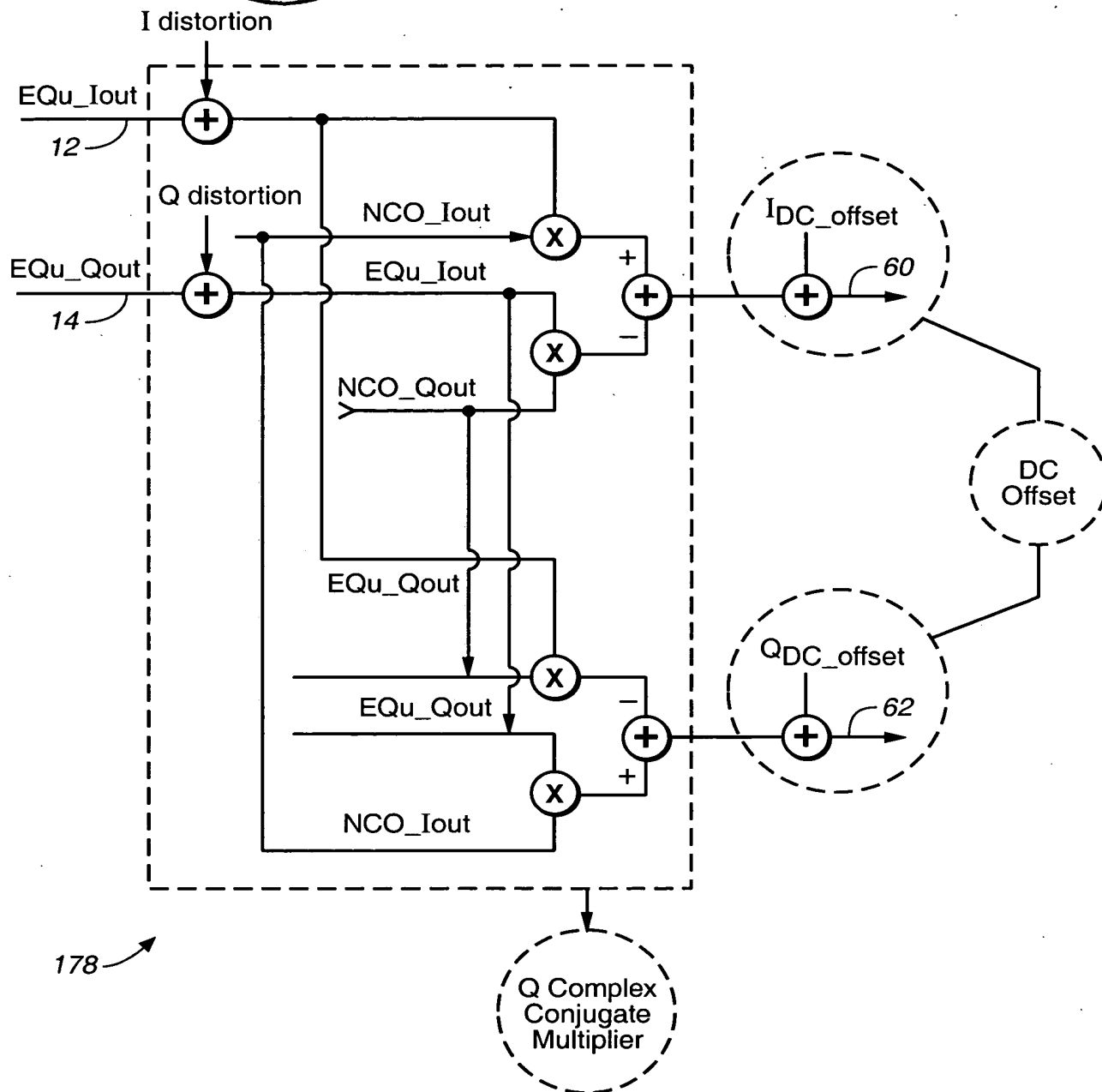


FIG. 6A

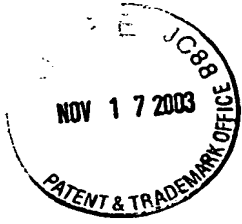
RECEIVED

NOV 20 2003

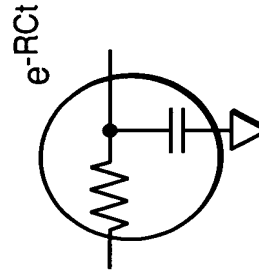
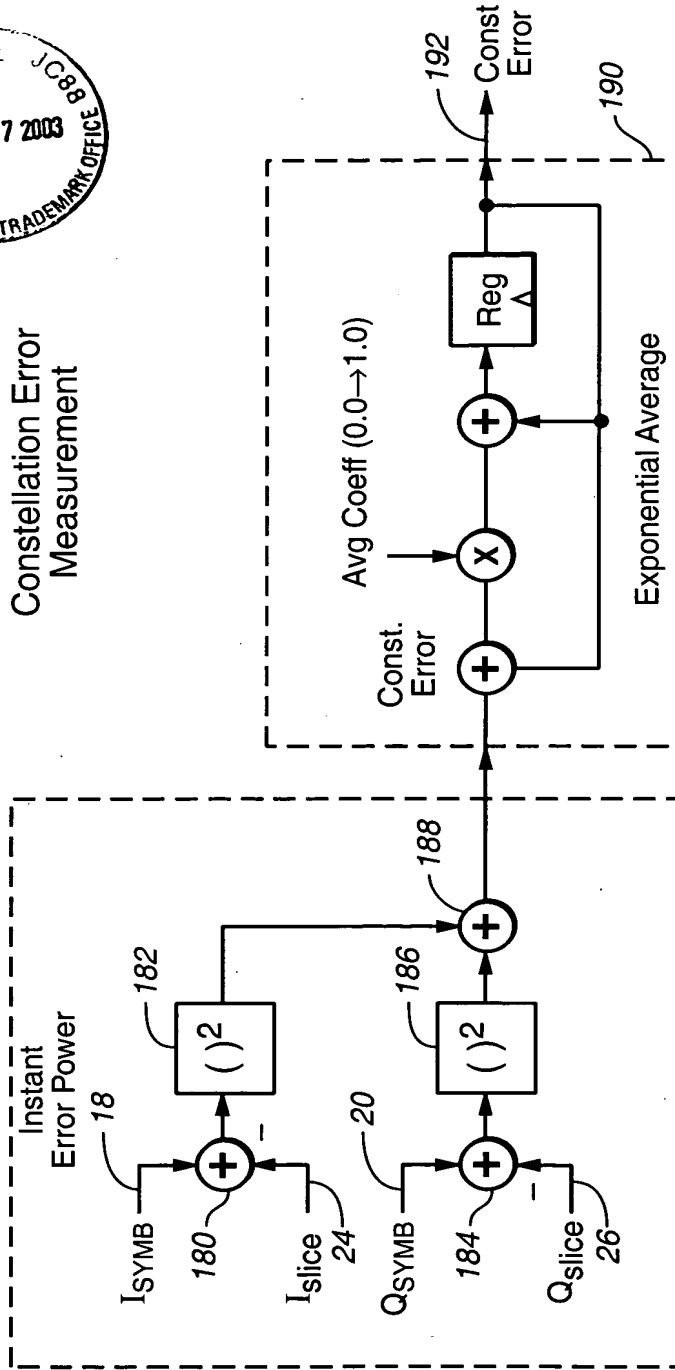
Office of Patent Publication
Director's Office

Wideband-105/Tank-195

8 / 11



Constellation Error Measurement



If (Avg Coeff = 0) Output is Held (Input Ignore)
If (Avg Coeff = 1) Output = Input
Else
Output is Exponential Avg of Inputs

FIG. 6B

32

RECEIVED

NOV 20 2003

Office of Patent Publication
Director's Office



Wideband-105/Tank-195

9 / 11

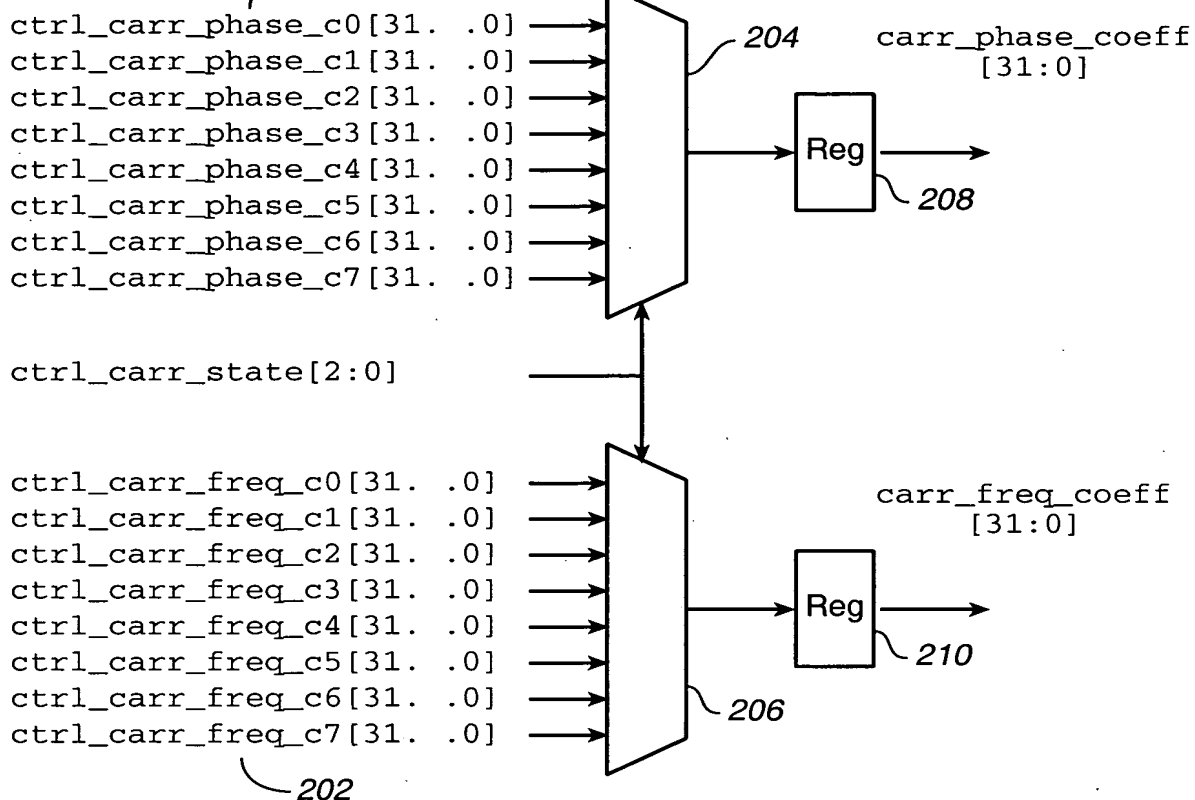


FIG. 7

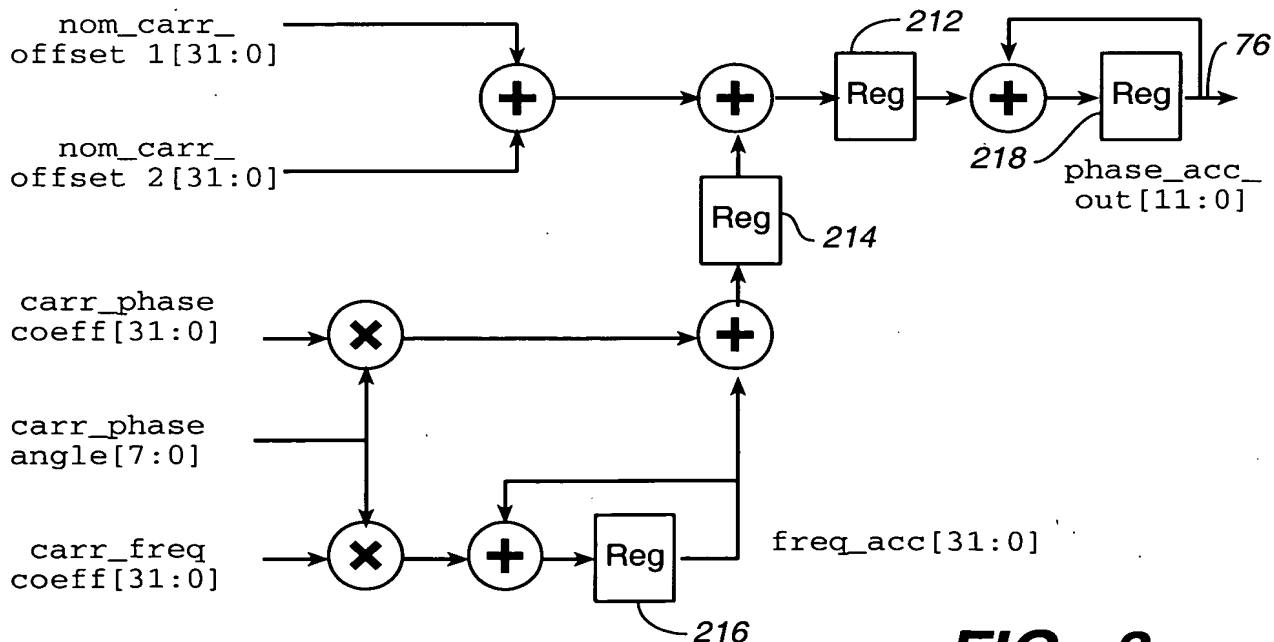
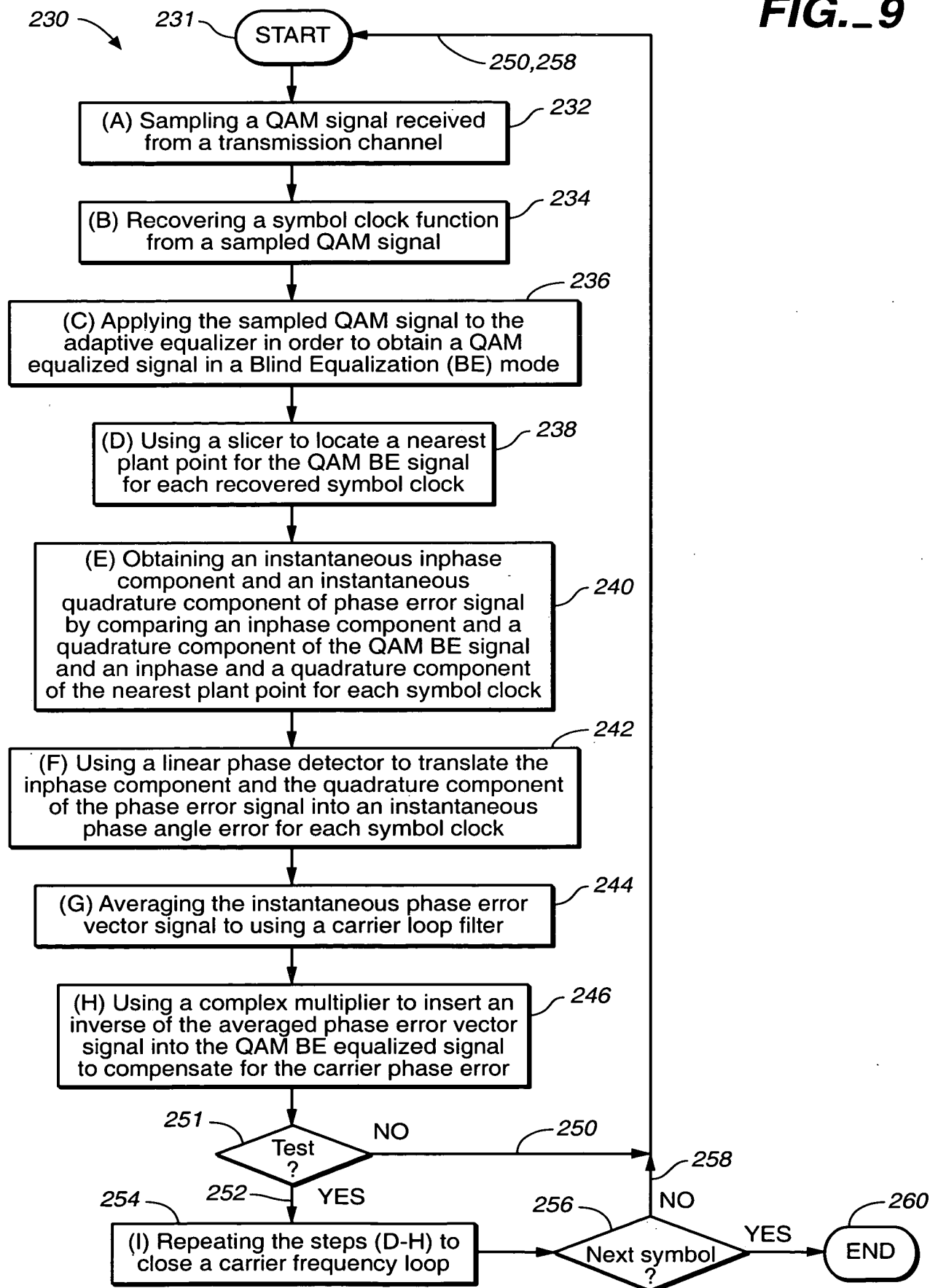


FIG. 8

FIG. 9



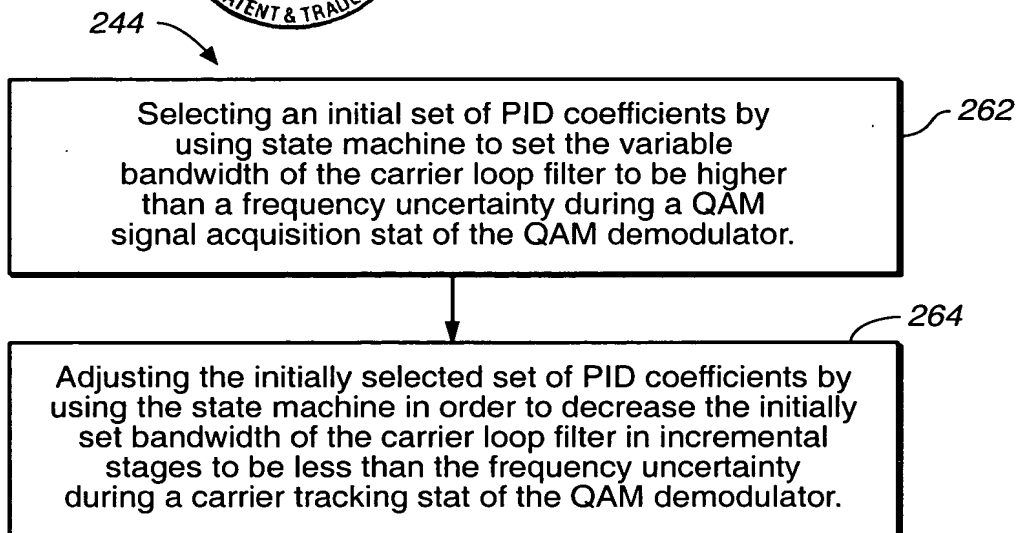


FIG._10

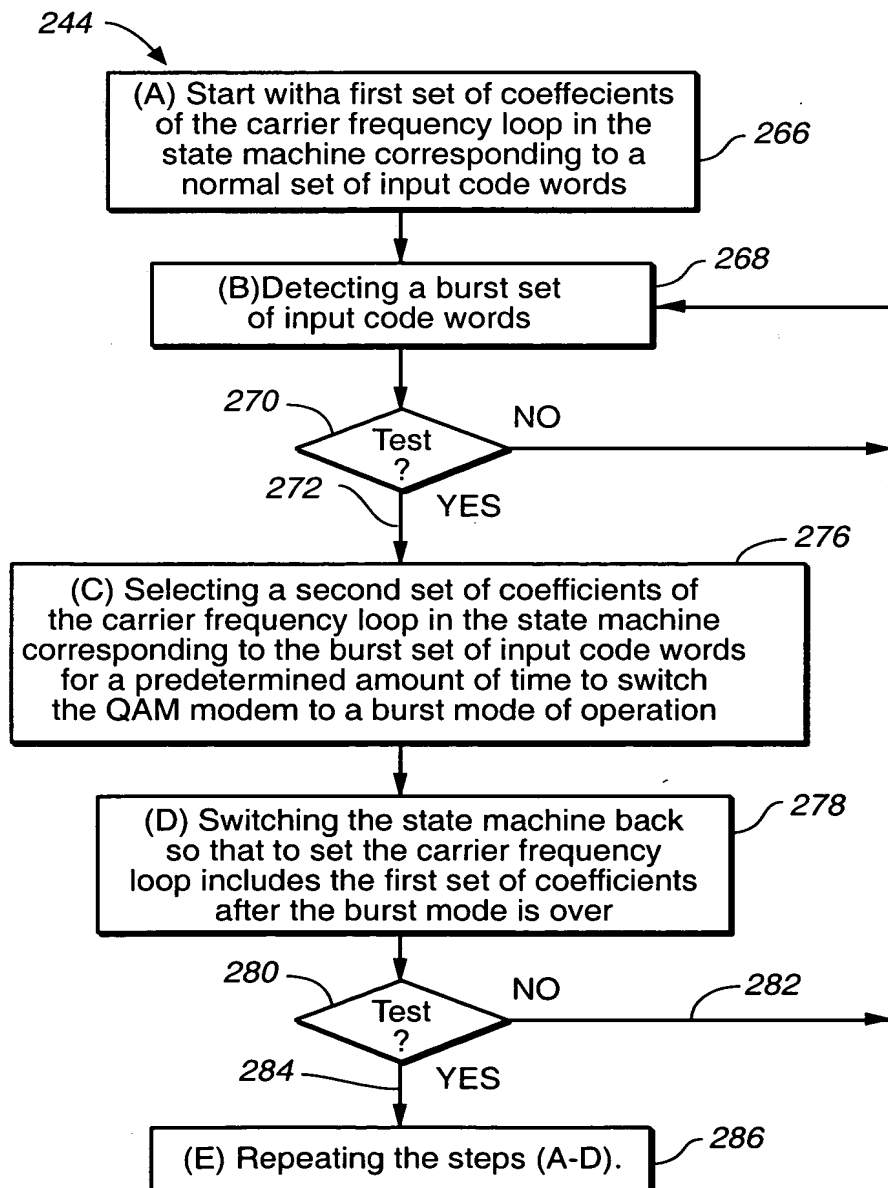


FIG._11